

# **Product Information Sheet for NR-2648**

# Genomic DNA from *Escherichia coli*, Strain EDL933

# Catalog No. NR-2648

# For research use only. Not for human use.

#### Contributor:

Guy Plunkett, III, Ph.D., Laboratory of Genetics, University of Wisconsin-Madison, Madison, Wisconsin, USA

#### Manufacturer:

**BEI Resources** 

## **Product Description:**

Genomic DNA was extracted from a preparation of *Escherichia coli* (*E. coli*), strain EDL933, serotype O157:H7. The enterohemorrhagic *E. coli* (EHEC), strain EDL933 was isolated from raw hamburger meat implicated in a multi-state outbreak of hemorrhagic colitis in the United States in 1982.<sup>1</sup>

*E. coli,* strain EDL933 carries two plasmids, pO157 and pEDL933. Virulence-associated genes are located on both the chromosomal and plasmid DNA. The complete genome and pO157 sequences of *E. coli,* strain EDL933 are available (GenBank: NC 002655 and AF074613). The presence of plasmid pO157 and EHEC virulence markers in NR-2648 have been confirmed by PCR amplification.

NR-2648 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

#### **Material Provided:**

Each vial contains 0.7  $\mu$ g to 1.5  $\mu$ g of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH  $\sim$  8.0). Lot 5107305 contains approximately 4  $\mu$ g to 6  $\mu$ g of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH  $\sim$  7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

## Packaging/Storage:

NR-2648 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Escherichia coli*, Strain EDL933, NR-2648."

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and

Prevention, and National Institutes of Health. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <u>www.cdc.gov/biosafety/publications/bmbl5/index.htm</u>.

#### **Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at <a href="https://www.beiresources.org">www.beiresources.org</a>.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

## **Use Restrictions:**

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

### References:

- Riley, L. W., et al. "Hemorrhagic Colitis Associated with a Rare Escherichia coli Serotype." N. Engl. J. Med. 308 (1983): 681-685. PubMed: 6338386.
- Perna, N. T., et al. "Genome Sequence of Enterohaemorrhagic Escherichia coli O157:H7." Nature 409 (2001): 529-533. PubMed: 11206551
- Burland, V., et al. "The Complete DNA Sequence and Analysis of the Large Virulence Plasmid of Escherichia coli O157:H7." <u>Nucleic Acids Res.</u> 26 (1998): 4196-4204. PubMed: 9722640.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

NR-2648 23MAR2017